

**Chesterfield Fire and EMS**  
Fire and Life Safety Division  
**WET CHEMICAL EXTINGUISHING SYSTEM**  
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**WET CHEMICAL EXTINGUISHING SYSTEM**  
**NFPA 17-A**

Project Name : \_\_\_\_\_  
Project Address : \_\_\_\_\_  
Building Permit #: \_\_\_\_\_ Date : \_\_\_\_\_  
Code Edition: \_\_\_\_\_

**All supporting documentation showing items listed below are required for review. The checklist is based on the 1996 Edition.**

**General (All submissions shall include the following):**

- ☐ A minimum of four copies of shop drawing, and submittal data shall be provided with permit application permitting evaluation of the system **PRIOR TO** installation. The permit application shall clearly designate the system as being **required** for compliance with Virginia Uniform Statewide Building Code, or installed as an **elective** system at the discretion of the owner.
- ☐ Name and address of project or tenant where system will be installed; include associated building permit number with project. (3-1.2.2)
- ☐ Name, address and telephone/fax numbers of designer of fire suppression/detection system. (3-1.2.2)
- ☐ Drawings are to be of uniform size and drawn to a recognized scale or fully dimensioned.
- ☐ Drawings shall contain sufficient detail to evaluate the protection of the hazard (s). Provide floor plan and elevation views with hood location, appliances, pull station and appliances with nozzle locations. (3-2.1.6), (4-2.2), (BOCA 914.2)
- ☐ Drawings shall show a detail of the hood and associated ductwork, to include dimensions. (4-2.1)

- ☐ Drawing (s) shall show the location of all appliances indicating which appliances require protection, their arrangement under the hood and the hazard area of each appliance. (4-2.2)
- ☐ Details on the system shall include the size, type, brand, length and arrangement of connected piping and the description and location of nozzles so that the adequacy of the system can be determined. Information shall be submitted pertaining to the location and function of detection devices, operating devices, auxiliary equipment, and electrical circuitry, if used. (4-2.3)
- ☐ Drawing (s) shall indicate maximum flow points available, flow point(s) of each nozzle type, number of each nozzle type utilized, and total flow points actually utilized. (4-2.3)
- ☐ A fusible link or heat detector shall be provided above each cooking appliance or group of appliances protected by a single nozzle. (3-6.1.2)
- ☐ Automatic detection and system actuation shall be in accordance with the manufacturer's listed installation and maintenance manual. Indicate specific temperature rating of the fusible link or heat detector utilized. (3-2.1.1), (BOCA 914.3)
- ☐ At least one manual actuator (pull station) shall be located not less than 4 1/2 ft. and not more than 5 ft. above the finished floor. The actuating device shall be a minimum of 10 ft. and a maximum of 20 ft. from the kitchen exhaust system and be convenient and easily accessible at all times, including the time of fire. (3-2.1.6) (1996 IMC 509.3)
- ☐ An automatic means shall be provided to ensure the shutoff of fuel or power sources to the protected appliances located under ventilating equipment protected by the extinguishing system, upon system actuation. (2-4.2.2)
- ☐ An alarm or indicator shall be provided to show that the system has operated, and that the system is in need of recharge. If a fire alarm system is provided, the extinguishing system shall be connected in accordance with the requirements of **NFPA 72, National Fire Alarm Code**. The actuation of the extinguishing system will sound the fire alarm as well as provide the function of the extinguishing system. (3-2.1.5)
- ☐ Multiple systems protecting back to back or adjacent non-separated hoods shall be installed to ensure the simultaneous operation of all systems protecting the hoods. (3-6.1)
- ☐ Automatic protection shall be provided for all portions of a common exhaust duct. (3-6.2)
- ☐ A minimum 40 BC portable fire extinguisher or a specifically listed "K" type extinguisher shall be provided in accordance with NFPA 10. Portable extinguisher shall be compatible with the extinguishing agent utilized for the system. (BOCA 921.2)

- ☐ Manufacturers' data sheets for the following:
  - ☐ Hood and ductwork configuration with listed protection criteria.
  - ☐ Appliances with listed protection criteria. (2-1)
  - ☐ Pipe and fittings (2-5)
  - ☐ Nozzles (3-5)
  - ☐ Extinguishing Agent containers (3-4.2, 3-4.4)
  - ☐ Detectors, indicators, and alarms (2-2.1, 3-2.1.5)
  - ☐ Operating devices (2-2.1, 3-2.2.1.5)
  - ☐ Fuel shutoff devices (2-4.2)
  - ☐ Portable fire extinguishers
  - ☐ Other \_\_\_\_\_
- ☐ Mechanical, Plumbing (gas), and Electrical final inspections shall be completed prior to scheduling required inspection and testing with Chesterfield Fire and Life Safety Division.
- ☐ **A "Full Agent Discharge" acceptance test shall be performed in accordance with 1996 BOCA 914.5, and 1/30/1992 Memorandum of William Dupler, Building Official, Chesterfield County Department of Building Inspections.**